

IN THE CLAIMS:

1.-27. Cancelled.

28. (Previously Presented) A liquid delivery system for horticultural application, comprising:

a controller electrically connectable to a zone watering control system where the controller is configured to:

generate and transmit fluid zone control signals to selectively control a pressurized fluid flow to a plurality of fluid delivery zones; and

generate injection pulses to selectively control injection of a predetermined number of slugs of liquid additive into said pressurized fluid flow, wherein the predetermined number of slugs is generated in accordance with at least a first criteria associated with said fluid zone control signals;

an injector for injecting liquid additive into said pressurized fluid flow, wherein said injector includes a piston for displacing a slug of liquid additive; ~~in response to each said injection pulse.~~

a solenoid connected to said piston, wherein each said injection pulse actuates said solenoid to displace said piston and wherein one slug of additive is injected into said pressurized flow in response to each said injection pulse

29. Cancelled.

30. (Previously Presented) The system of Claim 28, wherein said at least a first criteria includes at least one of: stored data from a memory structure, instructions entered through a user interface and external data received from at least a first external device.

31. (Previously Presented) The system of Claim 30, wherein said stored data includes at least one of:

zone information for each said fluid delivery zone in said liquid delivery system;

geographic information relating to at least a first environmental condition associated with the region in which said liquid delivery system is located;

horticultural information relating to plant types associated with each said fluid delivery zone in said liquid delivery system.

32. (Previously Presented) The system of Claim 31, wherein said zone information includes a flow rate for said each said fluid delivery zone.

33. (Original) The system of Claim 31, wherein said geographic information includes information relating to a least one of: soil types associated with said region, precipitation information associated with said region.

34. (Previously Presented) The system of Claim 30, wherein said external data received from at least a first external device includes at least one of:

weather related information received from a weather sensor in data communications with said controller; and

soil related information received from a soil sensor in data communications with said controller.